

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-8. (Canceled)

9. (Currently amended) A method of producing a multi-layer circuit board comprising the steps of: by preparing a circuit-parts sheet which comprises a photo-cured ceramic sheet and a circuit-forming pattern secured to said sheet and having light-transmitting property through the steps (a) to (e) described below and, then, conducting the steps (f) to (h) described below:

(a) forming the circuit-forming pattern having light-nontransmitting property on a surface of a carrier film having light-transmitting property;

(b) forming a photo-curable ceramic coating layer having a thickness not smaller than the thickness of said circuit-forming pattern and in which said circuit-forming pattern is buried, by applying a photo-curable slurry containing an electrically insulating ceramic material on the surface of the carrier film on which said circuit-forming pattern is formed;

(c) forming a photo-cured ceramic sheet by photo-curing said photo-curable ceramic coating layer by the irradiation with light from the back surface of said carrier film;

(d) removing uncured portions of said photo-curable ceramic coating layer by using a developing solution;

(e) peeling off said carrier film;

(f) preparing a plurality of pieces of the circuit-parts sheets obtained through the step (e);

~~(f) (g) laminating a plurality of pieces of the circuit-parts sheets obtained by the production method of claim 1; and~~
~~(g) (h) firing the laminate thereof.~~

10. (Currently amended) A method of producing a multi-layer circuit board by preparing a circuit-parts sheet which comprises a photo-cured ceramic sheet and a circuit-forming pattern secured to said sheet and having light-transmitting property through the steps (a) to (d) described below and, then, conducting the steps ~~(he) to (kh)~~ described below:

- (a) forming the circuit-forming pattern having light-nontransmitting property on a surface of a carrier film having light-transmitting property;
- (b) forming a photo-curable ceramic coating layer having a thickness not smaller than the thickness of said circuit-forming pattern and in which said circuit-forming pattern is buried, by applying a photo-curable slurry containing an electrically insulating ceramic material on the surface of the carrier film on which said circuit-forming pattern is formed;
- (c) forming a photo-cured ceramic sheet by photo-curing said photo-curable ceramic coating layer by the irradiation with light from the back surface of said carrier film;
- (d) removing uncured portions of said photo-curable ceramic coating layer by using a developing solution;
- ~~(h) (e) preparing a plurality of pieces of the circuit-parts sheets with the carrier film obtained through the step (d);~~
- ~~(f) (f) laminating another circuit-parts sheet with the carrier film on one circuit-parts sheet with the carrier film in a manner that the circuit-parts sheets~~

are opposed to each other, and peeling off the carrier film from the other circuit-parts sheet;

 (f) (g) fabricating a laminate having a plurality of pieces of the circuit-parts sheets by repeating the step (if); and

 (k) (h) peeling off the carrier film from said one circuit-parts sheet of the obtained laminate, followed by firing.

11. (Original) A method of producing a multi-layer circuit board according to claim 10, wherein both said photo-cured ceramic sheet and said circuit-forming pattern have thicknesses of not larger than 50 μm , and a difference in the thickness between said photo-cured ceramic sheet and the circuit-forming pattern is not larger than 5 μm .

12. (Original) A method of producing a multi-layer circuit board according to claim 10, wherein said circuit-forming pattern is formed by using at least either one of an electrically conducting material or an electrically insulating ceramic material.

13. (Original) A method of producing a multi-layer circuit board according to claim 12, wherein said electrically conducting material contains a metal powder and an organic binder.

14. (Original) A method of producing a multi-layer circuit board according to claim 12, wherein said electrically conducting material is a metal foil.

15. (Original) A method of producing a multi-layer circuit board according to claim 10, wherein said circuit-forming pattern and a thermally extinguishing

pattern are so formed in said step (a) that said circuit-forming pattern and said thermally extinguishing pattern will not be overlapped one upon the other, and the photo-curable ceramic coating layer is so formed in said step (b) that said circuit-forming pattern and said thermally extinguishing pattern are buried therein.

16. (Original) A method of producing a multi-layer circuit board according to claim 15, wherein said thermally extinguishing pattern is formed by using a thermally disintegrating resin composition.

17. (Original) A method of producing a multi-layer circuit board according to claim 10, wherein one surface of said cured ceramic sheet has a maximum surface roughness R_{max} (JIS B 0601) of not smaller than $1 \mu\text{m}$, and the laminate is so formed that the roughened surfaces are opposed to each other.

18. (Original) A method of producing a multi-layer circuit board by preparing a circuit-parts sheet which comprises a photo-cured ceramic sheet and a circuit-forming pattern secured to said sheet and is held on a surface of a carrier film having light-transmitting property through the steps (a) to (d) described below and, then, laminating a ceramic green sheet having through-holes filled with a conducting paste on said circuit-parts sheet, and peeling off the carrier film from the obtained laminate, followed by firing:

- (a) forming the circuit-forming pattern having light non-transmitting property on the surface of a carrier film having light-transmitting property;
- (b) forming a photo-curable ceramic coating layer having a thickness not smaller than the thickness of said circuit-forming pattern and in which said circuit-forming pattern is buried, by applying a photo-curable slurry containing an

electrically insulating ceramic material on the surface of the carrier film on which said circuit-forming pattern is formed;

(c) forming a photo-cured ceramic sheet by photo-curing said photo-curable ceramic coating layer by the irradiation with light from the back surface of said carrier film; and

(d) removing uncured portions of said photo-curable ceramic coating layer by using a developing solution.

19. (New) A method of producing a multi-layer circuit board according to claim 9, wherein in the step (c), by the irradiation with light, the photo-curable ceramic coating layer which is present on the circuit-forming pattern is not cured and the photo-curable ceramic coating layer which is not present on the circuit-forming pattern is cured.

20. (New) A method of producing a multi-layer circuit board according to claim 10, wherein in the step (c), by the irradiation with light, the photo-curable ceramic coating layer which is present on the circuit-forming pattern is not cured and the photo-curable ceramic coating layer which is not present on the circuit-forming pattern is cured.

21. (New) A method of producing a multi-layer circuit board according to claim 18, wherein in the step (c), by the irradiation with light, the photo-curable ceramic coating layer which is present on the circuit-forming pattern is not cured and the photo-curable ceramic coating layer which is not present on the circuit-forming pattern is cured.